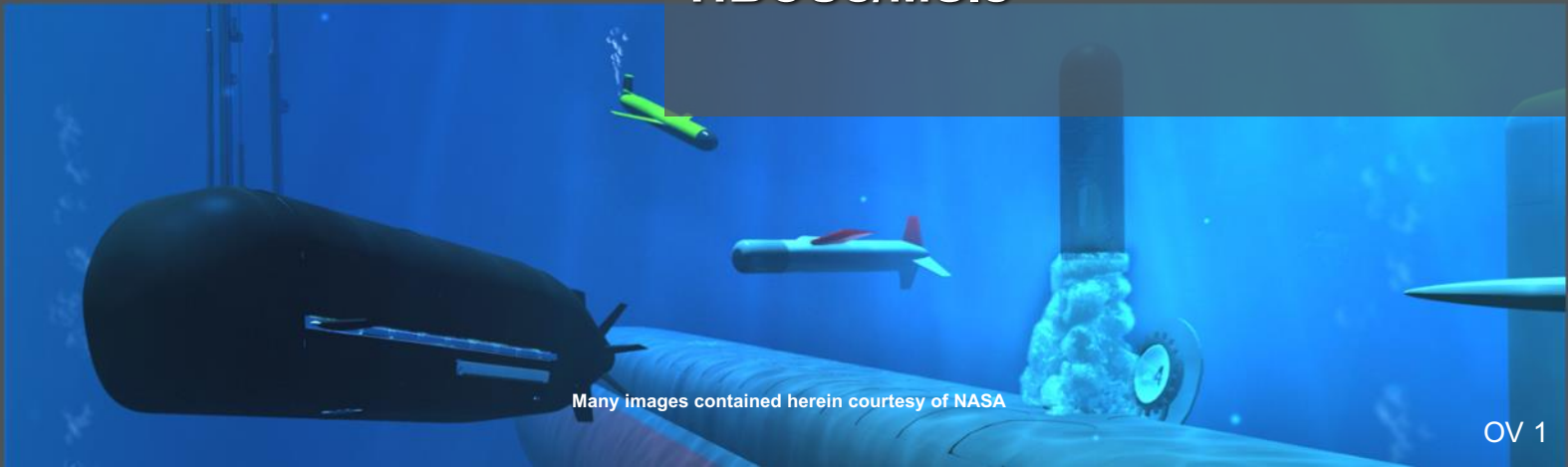


Challenges encountered with HBCUs/MSIs



Many images contained herein courtesy of NASA

Mission Systems

- Systems Engineering
- Modeling and Simulation
- Test and Evaluation



Space Systems and Commercial Space Imaging

- Multi-User System for Earth Sensing
- Mission Planning and Control Center Operations
- Payload/Cargo Integration
- Space Flight Hardware



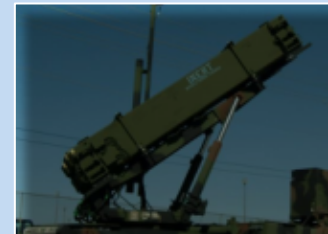
Energy & Environment

- Chemical Processing Equipment
- Electrical Penetration Assemblies
- Facilities M&O
- Radiological/Classified Laboratories



Marine & Aviation

- Naval Vessel Design and Manufacture
- LCS Gun Mount
- Army Missile Round Trainer
- Mine Seeking Hardware





- ▶ It's fairly easy to identify project needs and objectives for student/ university involvement. On the other hand it is sometimes difficult to identify a single point of contact and/or decision maker.
- ▶ On most campuses, there are many different colleges, departments, independent labs, institutes, and offices. With whom do you initiate discussions? Professors, Deans, Contracts, Administration?
- ▶ In some cases, the contract agreement was with a third party or affiliate of the institution instead of directly with the school.



- ▶ **Some universities don't invoice for months which causes additional accounting work.**
 - ◆ There's nothing worse than waiting months to receive an invoice and then it's incorrect.

- ▶ **Other invoicing issues are:**
 - ◆ Delayed responses to communication about invoices.
 - ◆ Hours worked in our system not matching the university's invoices.
 - ◆ Billing for unallowable travel expenses.



► Other problems encountered:

- ◆ Recruiting students in a timely manner- Late Spring, Summer, and late Fall are the most difficult times to identify students for projects.
- ◆ Arranging housing or affordable living accommodations- Most leases are six months to a year. Students tend to be on semester schedules.
- ◆ Transportation- In most cases this is covered by the student. If travel is required for the project the student is reimbursed by the school.
- ◆ Security clearances- Some projects require background checks and U.S. citizenship.
- ◆ Semester schedules- Most students don't want to delay graduation for a co-op.